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HNK-1

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### Cell Lines

<b>ATCC Number:</b>	TIB-200 <a href="#">order this item</a>
<b>Organism:</b>	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (B cell); mouse (myeloma))
<b>Designation:</b>	<b>HNK-1</b> [ <b>HNK1</b> ; Leu7]
<b>Depositors:</b>	T. Abo; C. Balch
<b>Strain:</b>	BALB/c (B cell); BALB/c (myeloma)
<b>Tissue:</b>	B lymphocyte; hybridoma
<b>Products:</b>	immunoglobulin; monoclonal antibody; against human natural killer (NK) cells and antigen dependent killer (K) cells (CD57)
<b>Morphology:</b>	lymphoblast
<b>Comments:</b>	Animals were immunized with a membrane extract of the human lymphoblastoid cell line HSB-2. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The antibody also reacts with glycoproteins present on Schwann cells, oligodendrocytes and embryonic neurons. Tested and found negative for ectromelia virus (mousepox). The cells will not grow if the medium lacks 2-mercaptoethanol.
<b>Growth Properties:</b>	suspension
<b>Isotype:</b>	IgM; kappa light chain
<b>Subculturing:</b>	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 1 x 10 exp5 cells/ml and maintain between 1 x 10 exp5 and 1 x 10 exp6 cells/ml.
<b>Fluid Renewal:</b>	Every 2 to 3 days
<b>Freeze Medium:</b>	culture medium 95%; DMSO, 5%
<b>References:</b>	<p>RF10836: Abo T and Balch CM. A differentiation antigen of human NK and K cells identified by a monoclonal antibody (<b>HNK-1</b>). <i>J. Immunol.</i> 127: 1024-1029, 1981 PubMed: 81265424</p> <p>RF10837: Abo T et al. Postnatal expansion of the natural killer and killer cell population in humans identified by the monoclonal <b>HNK-1</b> antibody. <i>J. Exp. Med.</i> 155: 321-326, 1982 PubMed: 82099947</p> <p>RF33324: Schuller-Petrovic S et al. A shared antigenic determinant between natural killer cells and nervous tissue. <i>Nature</i> 306: 179-181, 1983 PubMed: 6663114</p>

<p>84068120</p> <p>RF33326: McGarry RC et al. Recognition of myelin-associated glycoprotein by the monoclonal antibody <b>HNK-1</b>. <i>Nature</i> 306: 376-378, 1983 PubMed: 84068158</p> <p>RF33406: Vincent M and Thiery JP. A cell surface marker for neural crest and placodal cells: further evolution in peripheral and central nervous system. <i>Dev. Biol.</i> 103: 468-481, 1984 PubMed: 84209410</p> <p>RF33532: McBurney MW et al. Differentiation and maturation of embryonal carcinoma-derived neurons in cell culture. <i>J. Neurosci.</i> 8: 1063-1073, 1988 PubMed: 88154997</p> <p>RF33539: Tucker GC et al. Identical reactivity of monoclonal antibodies <b>HNK-1</b> and NC-1: conservation in vertebrates on cells derived from the neural primordium and on some leukocytes. <i>Cell Differ.</i> 14: 223-230, 1984 PubMed: 85024914</p>	
<b>Propagation:</b>	ATCC medium: RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate and supplemented with 0.02 mM 2-mercaptoethanol, 80%; <u>fetal bovine serum</u> , 20% Temperature: 37C
<b>Related Products:</b>	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2001 recommended serum 30-2020
<b>BioSafety Level:</b>	1
<b>Shipped:</b>	Frozen
<b>Price:</b>	\$205.00
<b>Revised :</b>	Mar 05, 2001

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